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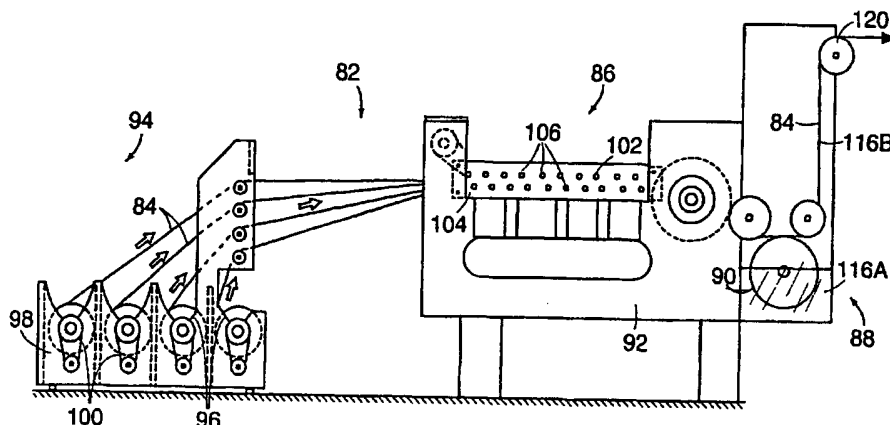
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(54) Title: NON-WOVEN WARP YARN FABRIC MATERIALS AND METHOD AND APPARATUS FOR MANUFACTURING SAME



(57) Abstract: This invention comprises a plurality of yarns that have been formed into an aligned group, substantially parallel and equally spaced apart, as described in greater detail below. This parallel grouping of yarns is fixed in place by forming an adhesive coating, printed on only one side of the yarns. Cooling of the hot melt adhesive occurs almost instantaneously, and the resulting product is a fixed web or substrate consisting essentially of a plurality of aligned yarns and an adhesive coating or layer on one side of said fibers. The fiber orientation produced in this invention, in which the fibers run in the machine direction, provides a non-woven fabric material substrate in which the fibers mimic warp yarns, which can either be used as is or used in subsequent non-woven manufacturing processes to make materials that have the visual impression and physical feel of a woven material.